Responsibilities of the MTI Instructor

The Mathematical Thinking for Instruction (MTI) course is taught in partnership with the Initiative for Developing Mathematical Thinking, MTI Regional Specialists, school(s)/district(s) and the Idaho Dept. of Education. Successfully implementing this model will depend upon effective collaboration among all parties.

MTI instructors must perform work consistent with the recommendations of the Initiative for Developing Mathematical Thinking and the Idaho Department of Education. The primary work of the MTI instructor is to teach the course in a consistent manner with its intent developed by IDMT. Information about the course and the research behind it can be found at *http: dmt.boisestate.edu*

Criteria for Teaching an MTI Course

Professional Preparation
- Idaho Teaching Certification and preferably a master's degree or beyond with focus in mathematics education
- Demonstration of exemplary mathematics content and pedagogical knowledge for *K-12* mathematics *(validated by MTI Content Knowledge Inventory score*)*

Work Experience
- Demonstrated success in increasing student achievement over time and demonstrated success with diverse groups of students
- Rich and varied professional work experiences relevant to K-12 mathematics teaching, including *at least three years experience* teaching mathematics as well as relevant experiences beyond the classroom
- Should be familiar with multiple teaching and assessment strategies, with *emphasis on reform-oriented approaches and models*

Experience Working with Teachers
- Instructors should have the candor and personality that allows them to impact teachers' beliefs and instructional practice
- Instructors should have leadership skills that enable them to bring teachers, administrators, departments, etc. together and to foster communication and collaboration.
- Instructors should have experience in planning, developing, and delivering professional development activities at the building, local, or state level that will affect mathematics teaching and student learning.

Steps to becoming an MTI Instructor

1. Complete at least one of the MTI Courses (K-3, 4-8, 6-12)
   - Demonstrate evidence of ability to teach a standards-based lesson (IDMT staff may request a classroom observation*)
   - Demonstrate knowledge of how students learn mathematics* (e.g., learning progressions)
   - Provide evidence of an ability and candor to work with teachers in a professional development role*
2. Be selected to participate in a three day MTI Instructor conference
3. "Shadow" an IDMT staff member through an entire MTI course, including planning and co-facilitating
4. Be selected as an MTI Instructor*

*Please note that the Idaho State Department in consultation with IDMT staff will determine whether instructors have the qualifications to teach the course.

MTI Instructor Expectations

As an MTI Instructor you will be expected to implement professional development activities in a manner consistent with the original theory of the MTI course materials. You will be expected to utilize the materials provided in the MTI Instructor Kits (including the presentations, assigned reading materials & texts, facilitation notes, and video clips) in ways consistent with their design and intention as determined by IDMT staff.

IDMT Staff and Idaho State Department personnel will frequently visit MTI class meetings in order to support MTI Instructors and to ensure that the integrity of the course materials is being maintained. During these visits and through on-going collaboration with IDMT staff, instructors will be evaluated on the following criteria:

1. Demonstration of exemplary knowledge of mathematics
2. Demonstration of knowledge of teaching mathematics in reform-oriented ways
3. Demonstration of knowledge how students learn mathematics
4. Demonstration of ability and candor to work with teachers
5. Demonstration of professional development implementation skills